CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/W.No.08/CSR.10/642b/CEMENT/2014-15

Date: 04.10.2014

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N.M. Shivakumar,** # 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
*NAME OF THE WORK	:	Improvements of Roads and Drains at Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: CC Road at Kodigehalli Village surroundings), BBMP, Bangalore.
REFERENCE	:	AEE/KSD/PR/ /2014-15 Dated: 01.10.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	01.10.2014
PERIOD OF TESTING	:	01.10.2014 to 04.10.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

A.E.E.

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/W.No.08/CSR.10/642b/SAND-Gradation/2014-15 : 04.10.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N.M. Shivakumar,**
# 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

*** Name of Work** : Improvements of Roads and Drains at Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: CC Road at Kodigehalli Village surroundings), BBMP, Bangalore.

Reference : AEE/KSD/PR/ /2014-15 Dated: 01.10.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 01.10.2014

Date of Testing : 04.10.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.47	90-100	90-100	90-100	95-100
2.36	77.99	60-95	75-100	85-100	95-100
1.18	54.46	30-70	55-90	75-100	90-100
600 Micron	23.21	15-34	35-59	60-79	80-100
300 Micron	10.47	5-20	8-30	12-40	15-50
150 Micron	4.21	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

A.E.E.

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/W.No.08/CSR.10/642b/AGG/GR/2014-15 : 04.10.2014

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N.M. Shivakumar,**
# 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

*** Name of Work** : Improvements of Roads and Drains at Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: CC Road at Kodigehalli Village surroundings), BBMP, Bangalore.

Reference : AEE/KSD/PR/ /2014-15 Dated: 01.10.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 01.10.2014

Date of Testing : 04.10.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.77	95-100	85-100
20	50.90	30-70	0-20
10	28.26	10-35	0-5
4.75	2.90	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

A.E.E.

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/W.No.08/CSR.10/642b/CUBE/2014-15

07.11.2014

TEST REPORT ON CONCRETE CUBES

*** Client**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	**: Mr. N.M. Shivakumar,** # 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
*** Name of the work**	: Improvements of Roads and Drains at Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: CC Road at Kodigehalli Village surroundings), BBMP, Bangalore.
*** Reference**	: AEE/KSD/PR/ /2014-15 Dated: 01.10.2014
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 06.11.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.10.2014	07.11.2014	8.248	486.3	21.61
2	10.10.2014	07.11.2014	8.356	494.7	21.99
3	10.10.2014	07.11.2014	8.475	508.4	22.60

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

****

A.E.E.

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com